

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

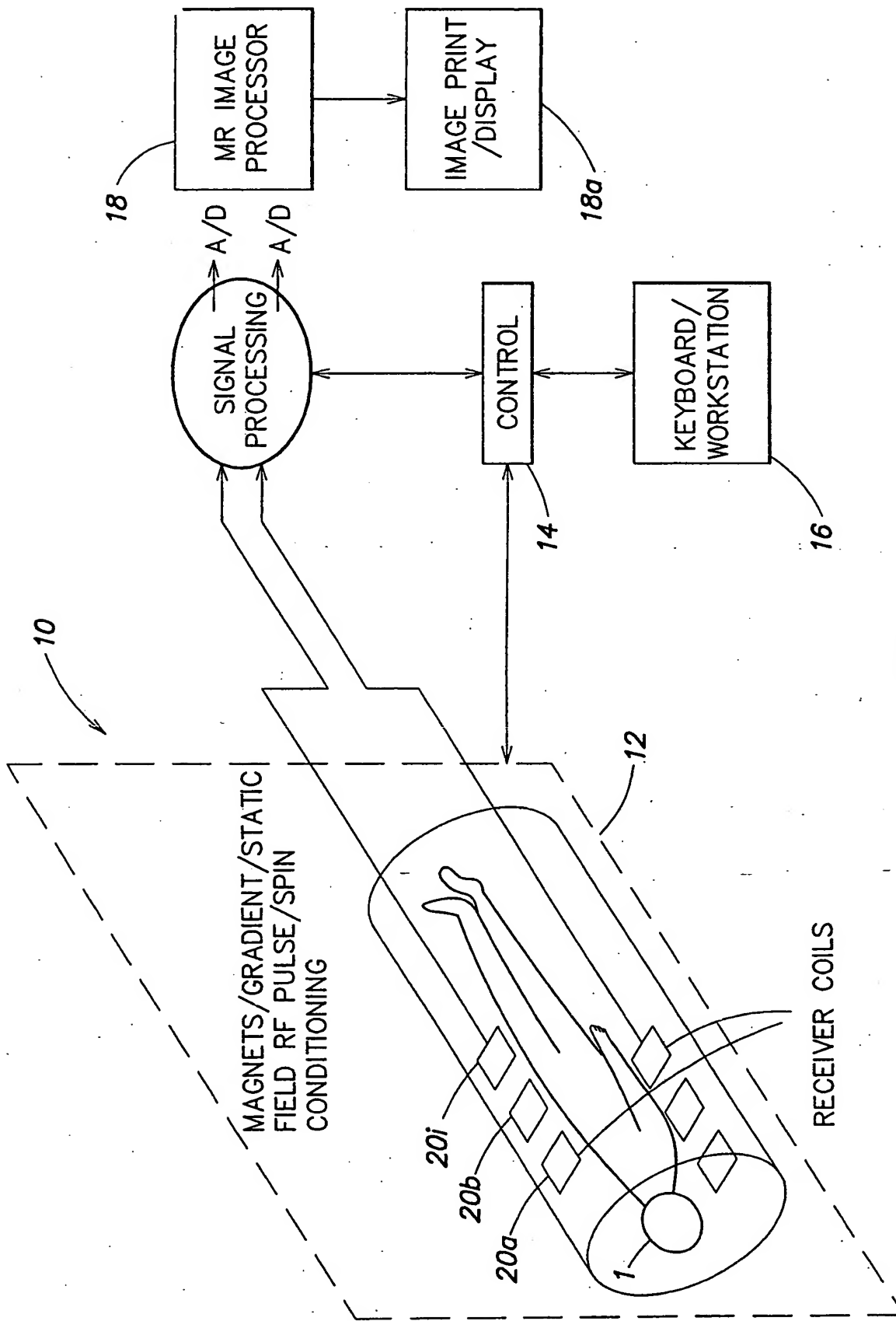


FIG. 1

(Prior Art)

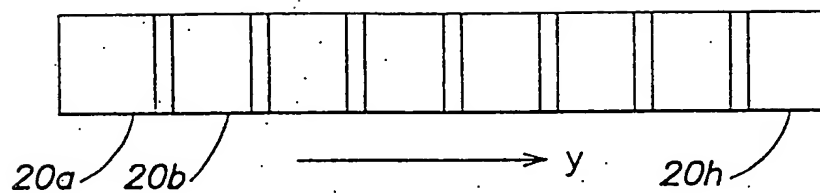


FIG. 2

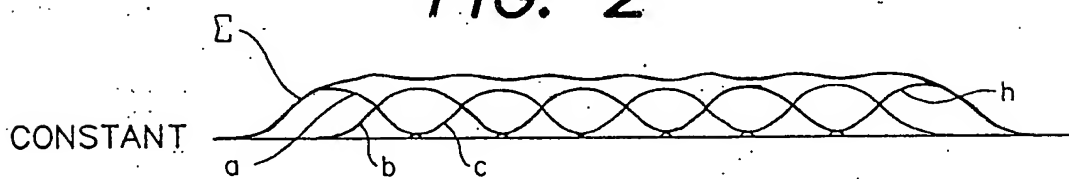


FIG. 3a



FIG. 3b

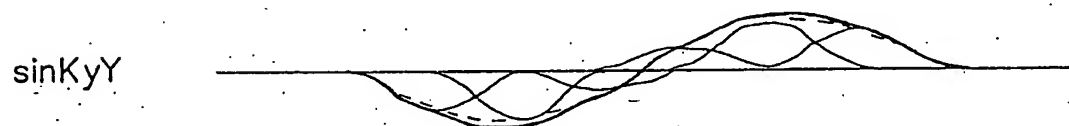


FIG. 3c



FIG. 3d



FIG. 3e

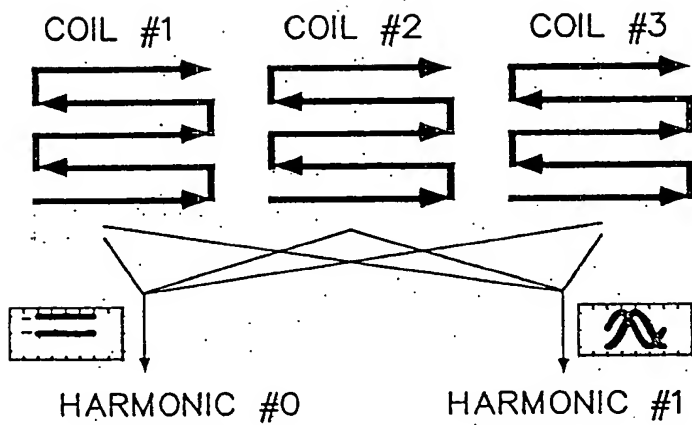


FIG. 4a



FIG. 4b

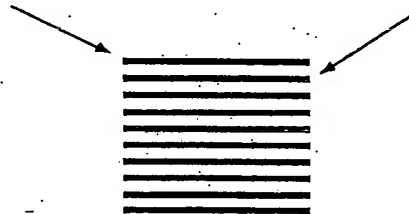


FIG. 4c

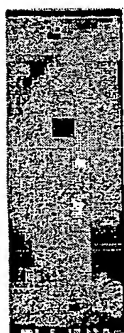
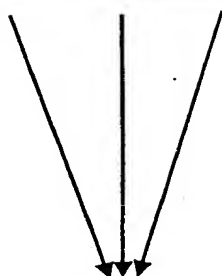
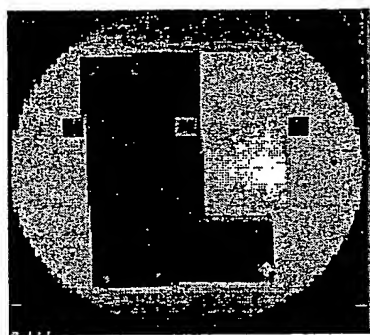
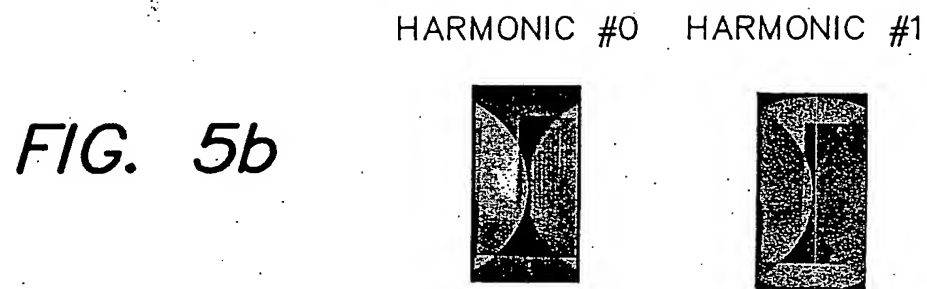
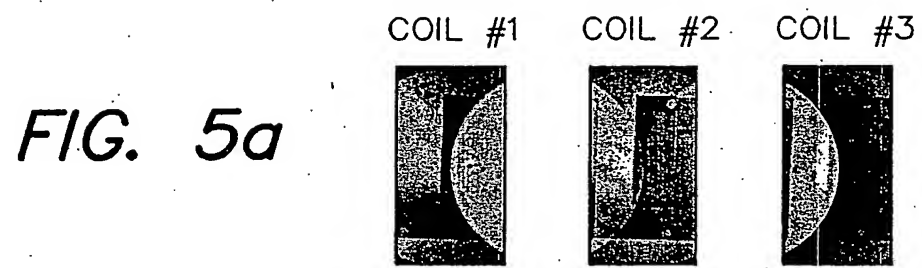


FIG. 5



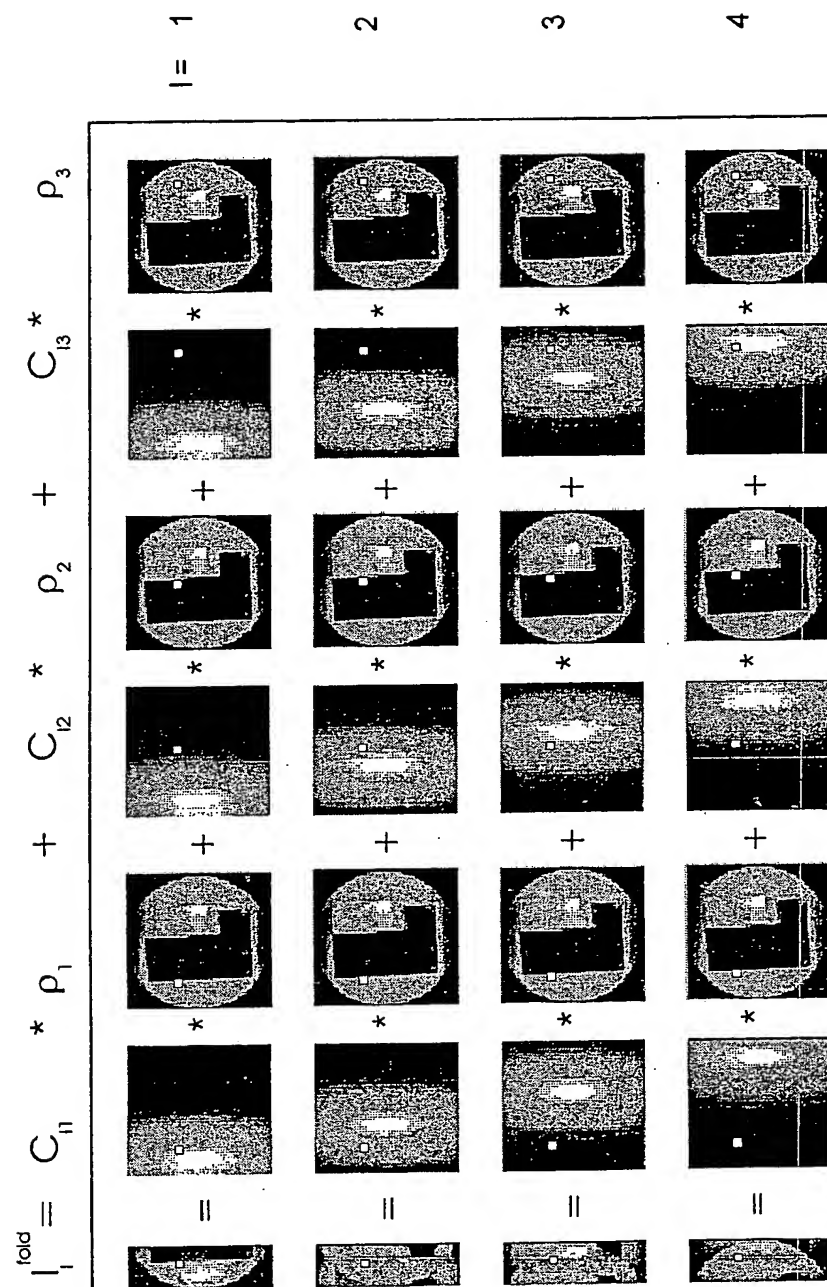


FIG. 6

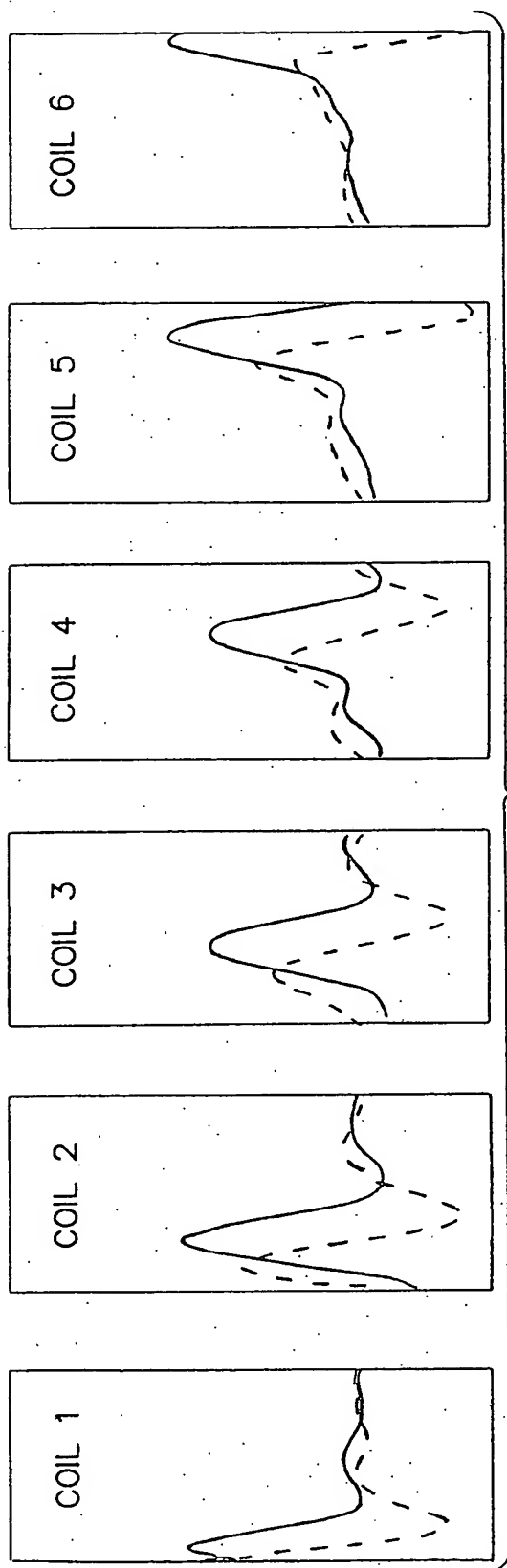


FIG. 7a

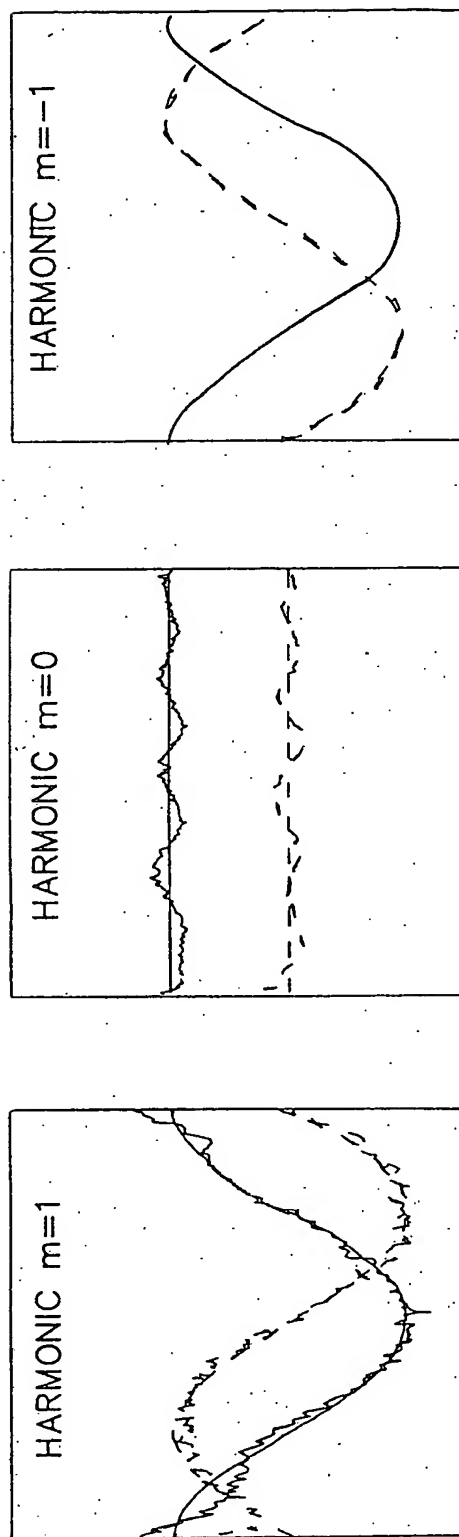


FIG. 7b

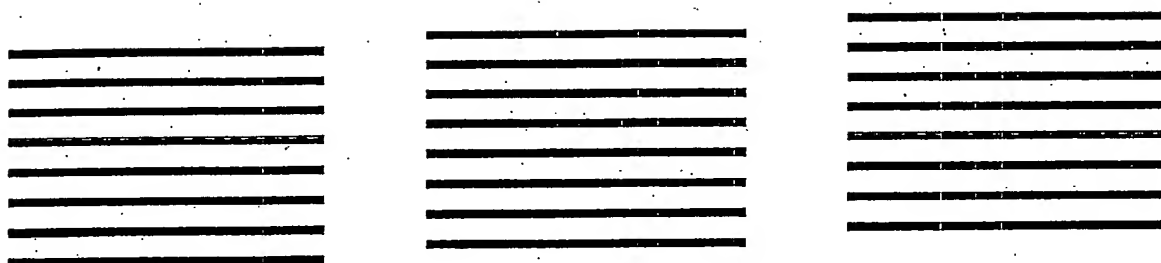
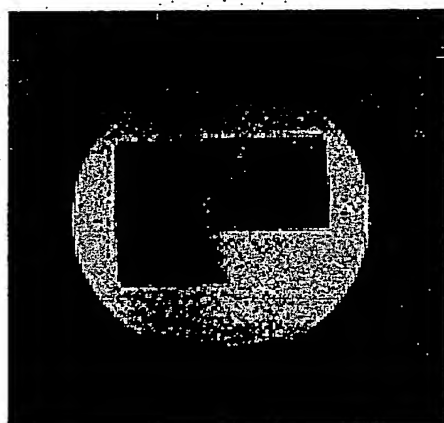


FIG. 7c

$m = (1 \ 0)$



$m = (1 \ -0)$

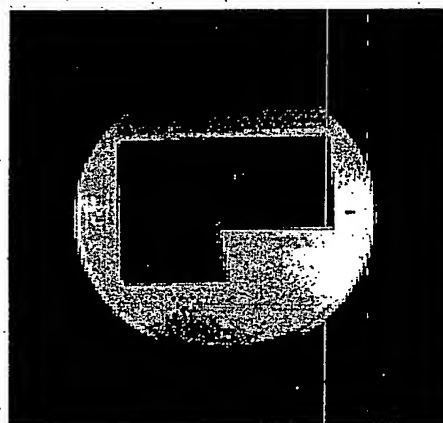


FIG. 7d

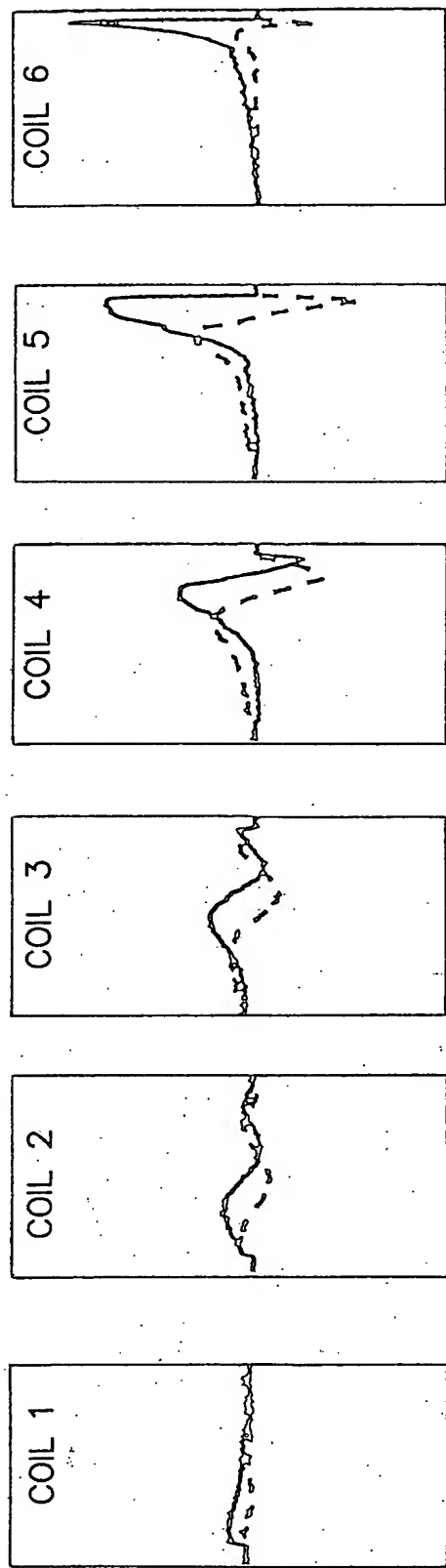


FIG. 8a

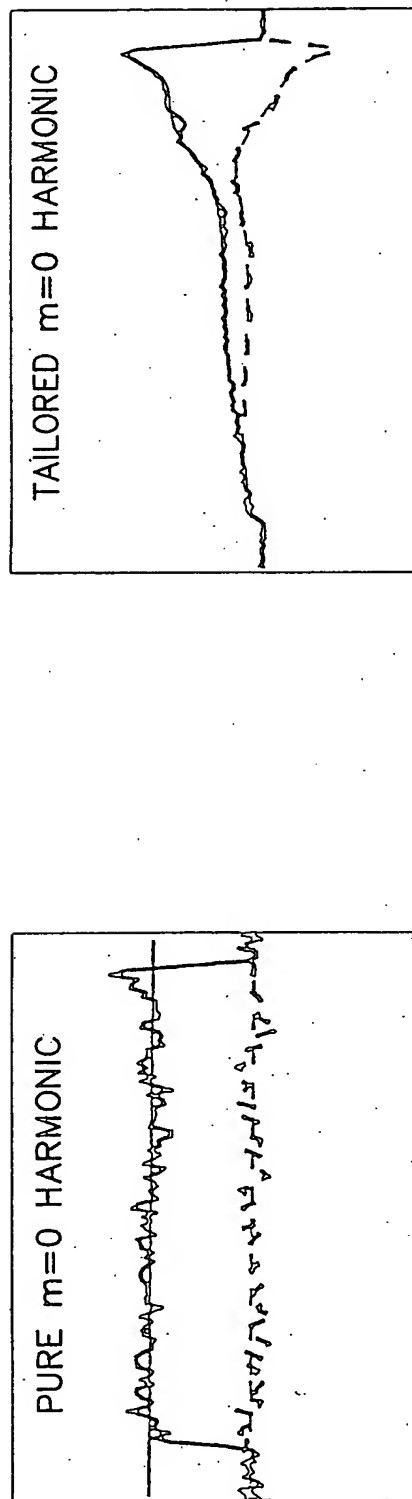


FIG. 8b

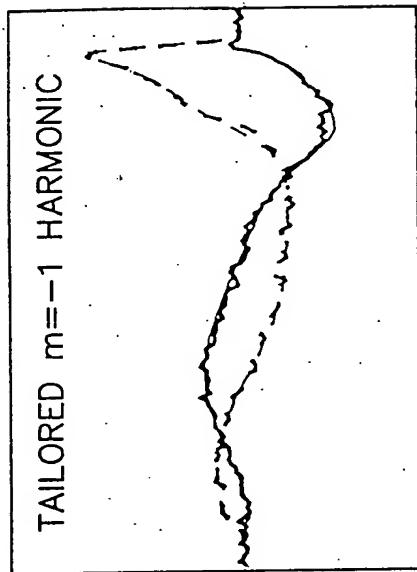
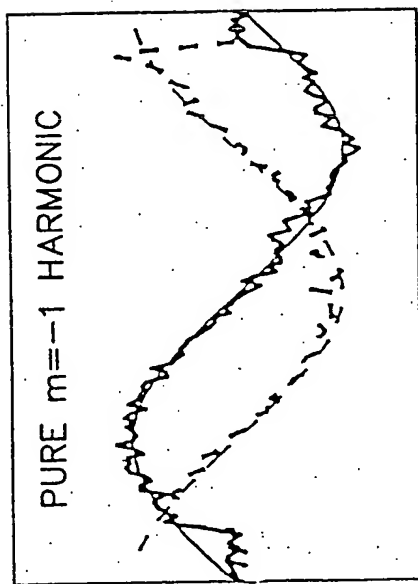


FIG. 8c

PURE $m=(0 -1)$ HARMONICS

TAILORED $m=(0 -1)$ HARMONICS

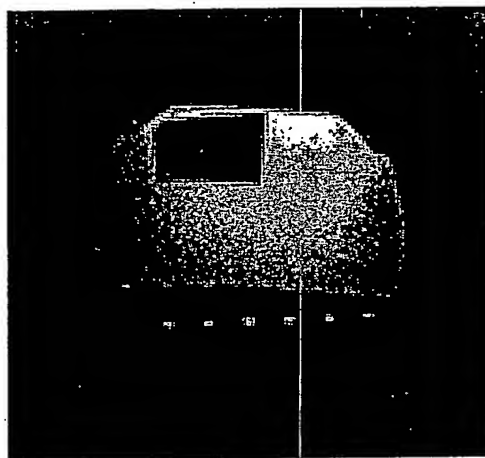
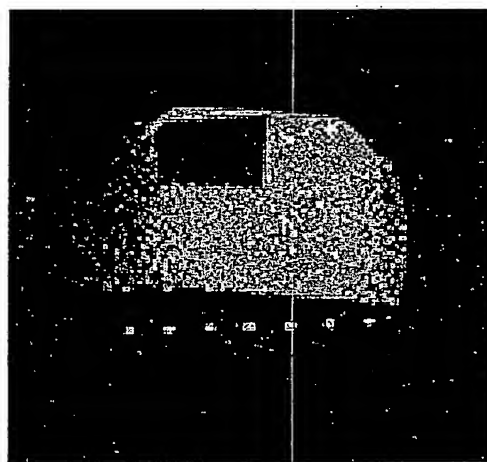


FIG. 8d

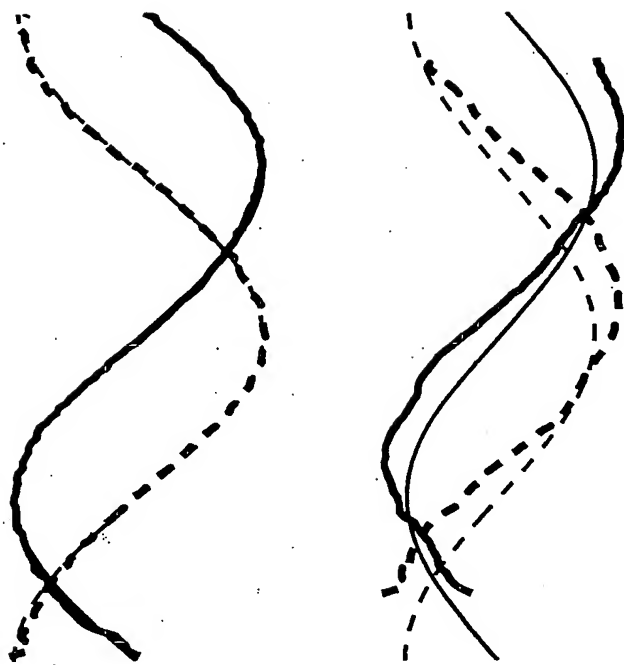
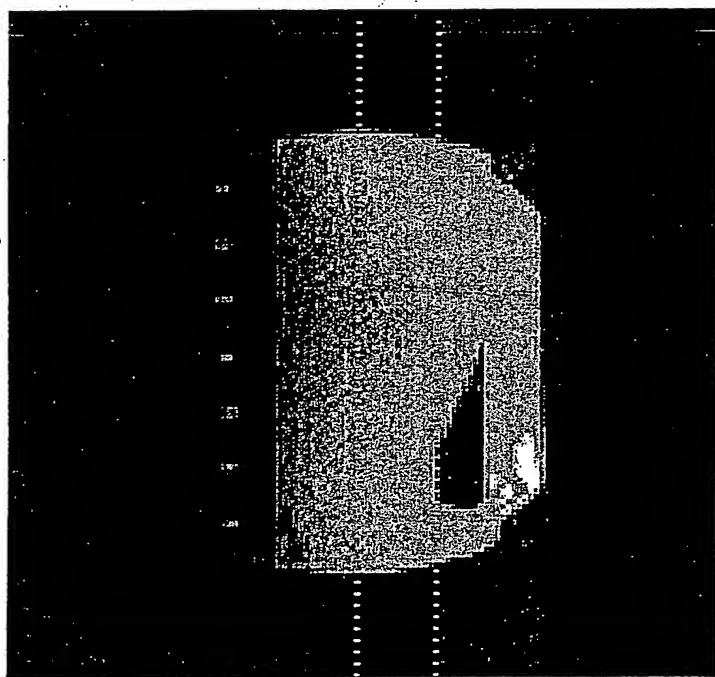


FIG. 9a

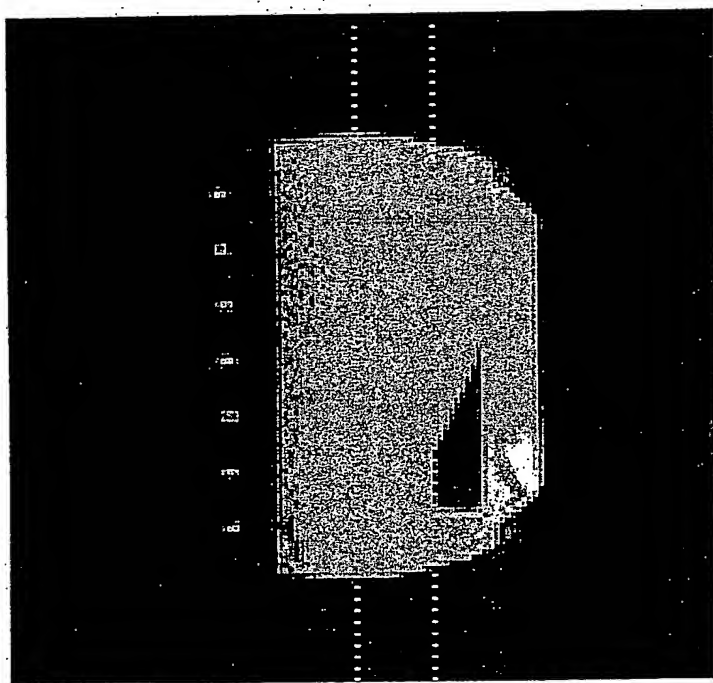
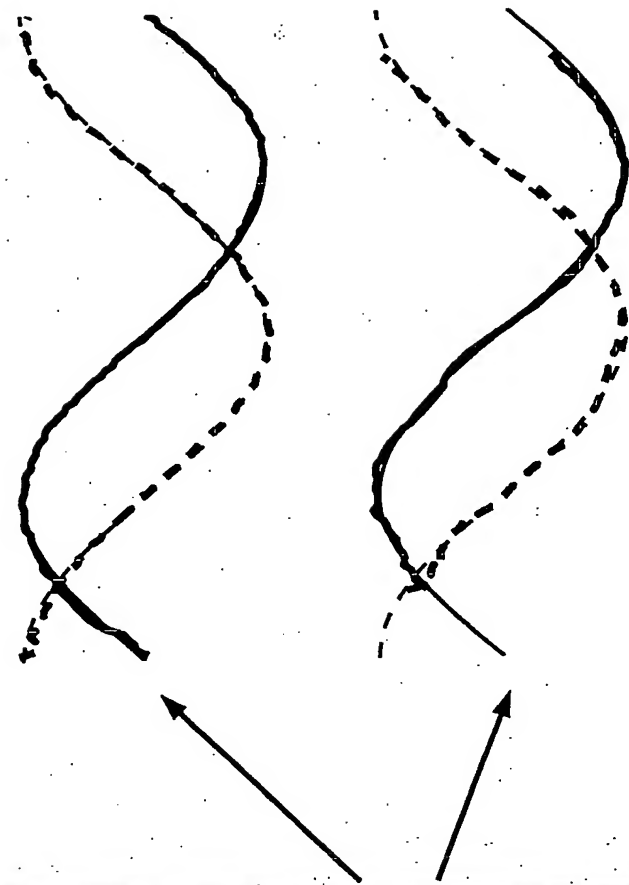


FIG. 9b

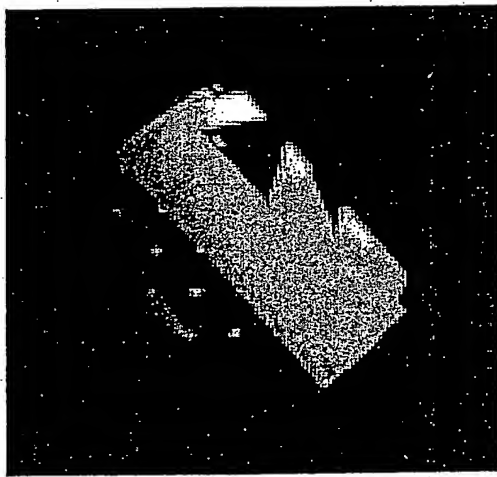


FIG. 10a

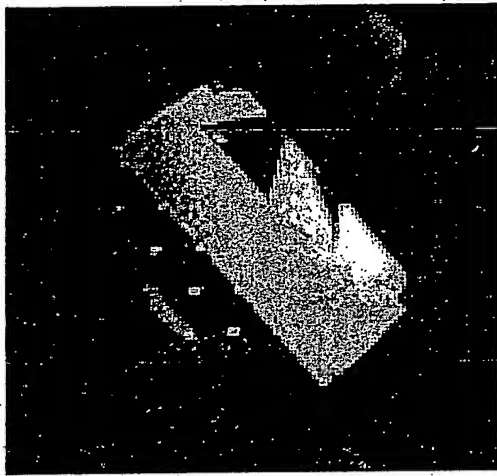


FIG. 10b

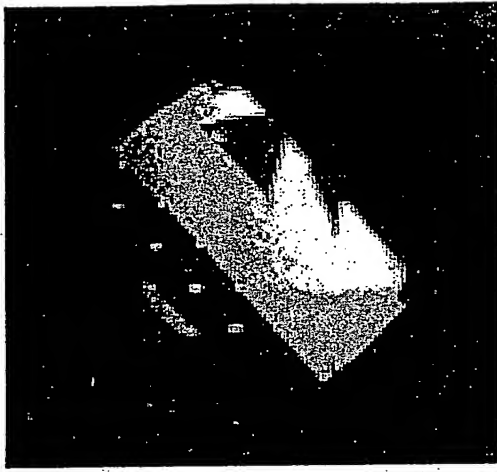


FIG. 10c

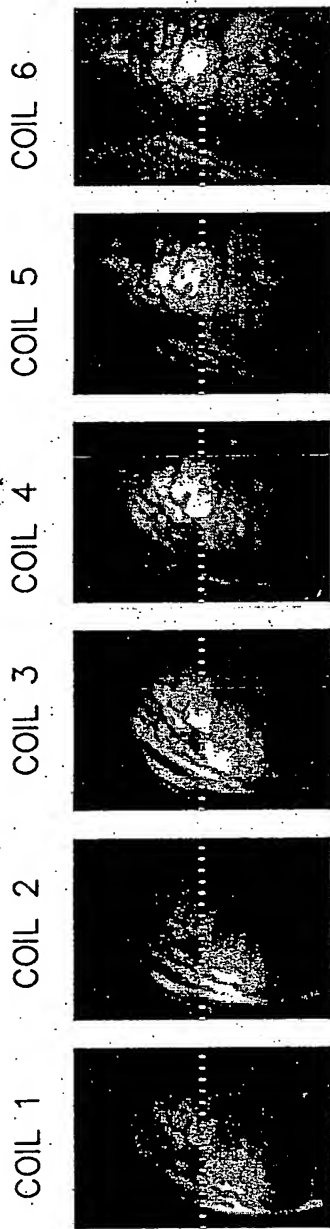


FIG. 11a

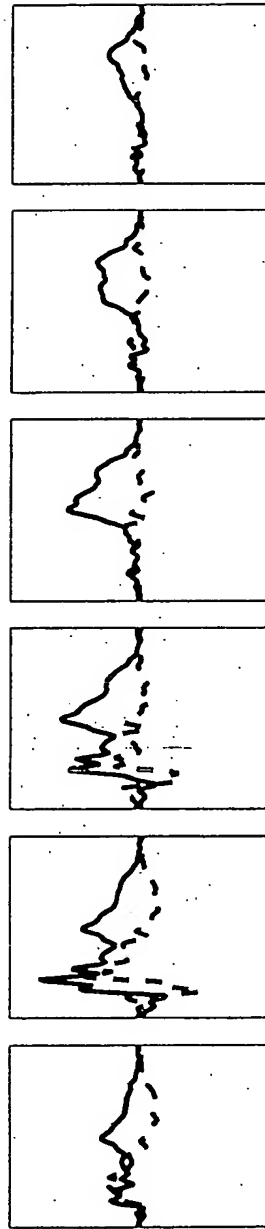


FIG. 11b

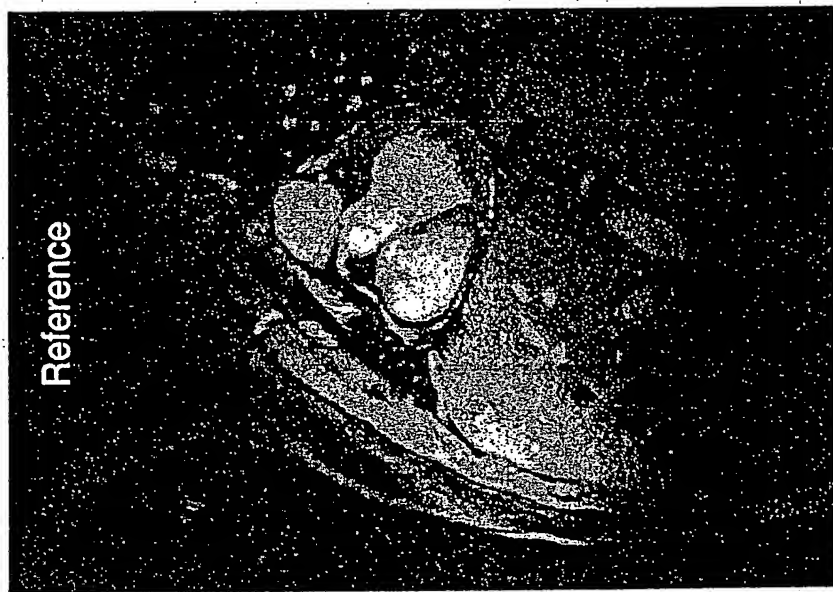


FIG. 11c

FIG. 12a



FIG. 12b

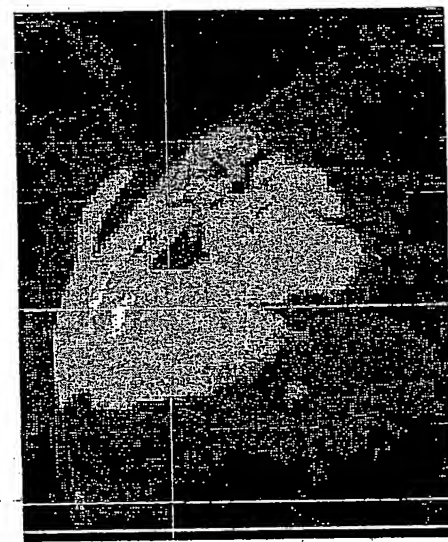
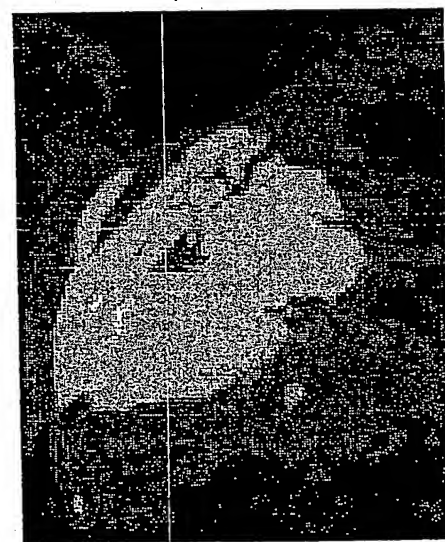


FIG. 12c



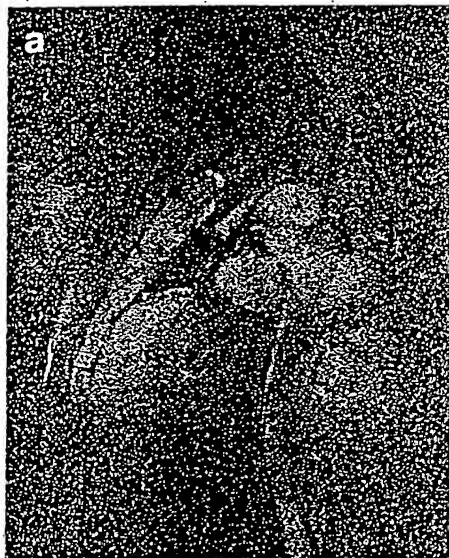


FIG. 13a



FIG. 13b



FIG. 13c

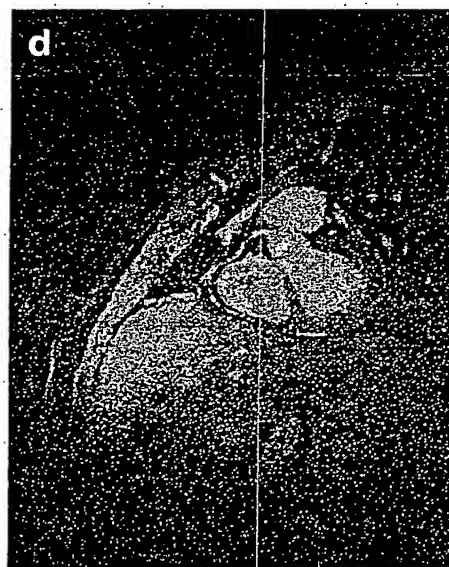


FIG. 13d



FIG. 13e



FIG. 13f

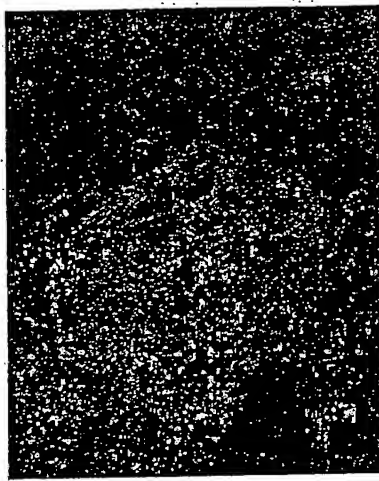


FIG. 14a

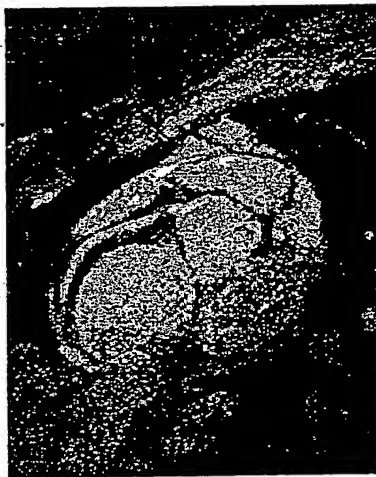


FIG. 14b

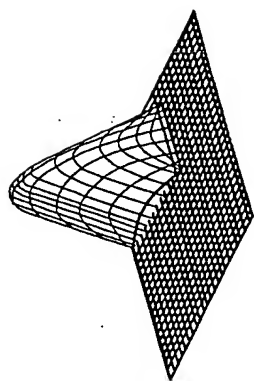
ENCODING FUNCTION

GRADIENT MODULATION

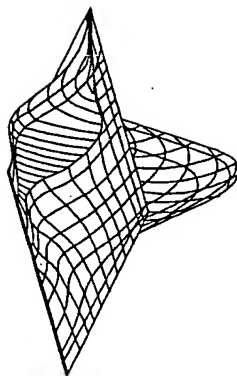
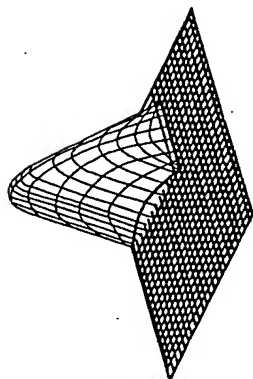
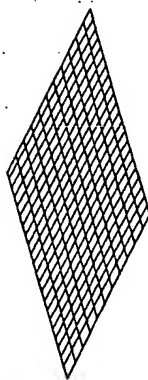
COIL SENSITIVITY MODULATION

=

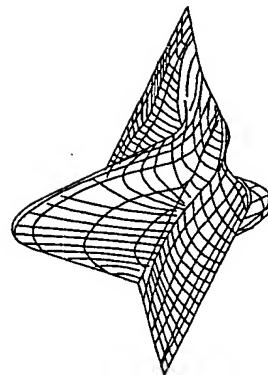
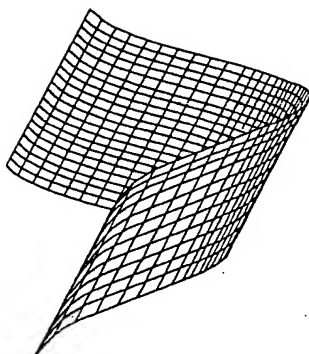
X



$K_y = 0$



$K_y = 1$



$K_y = 2$

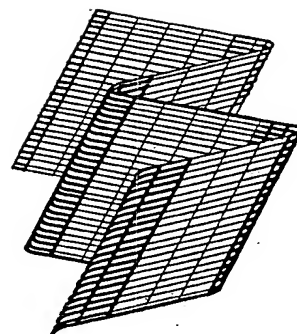


FIG. 15

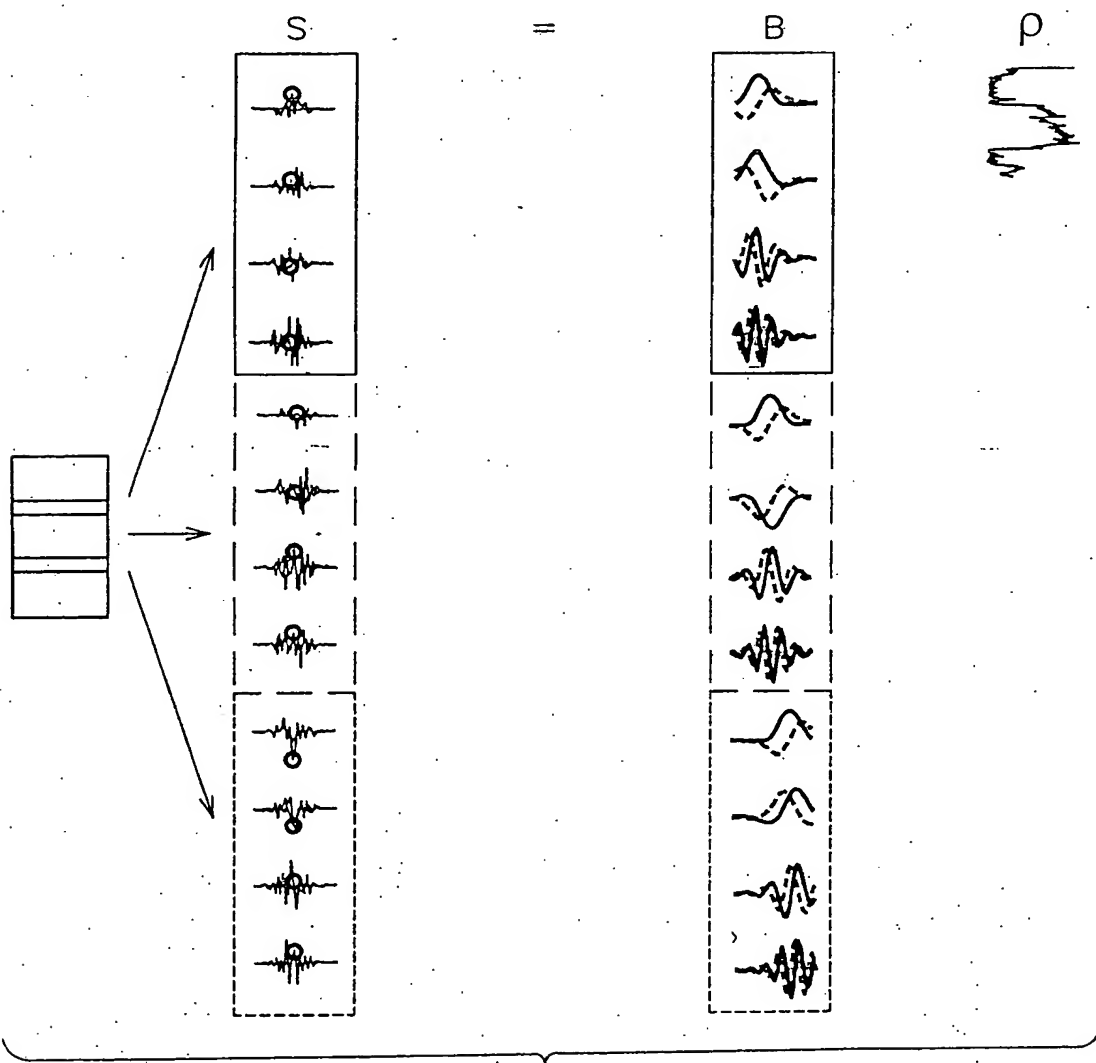
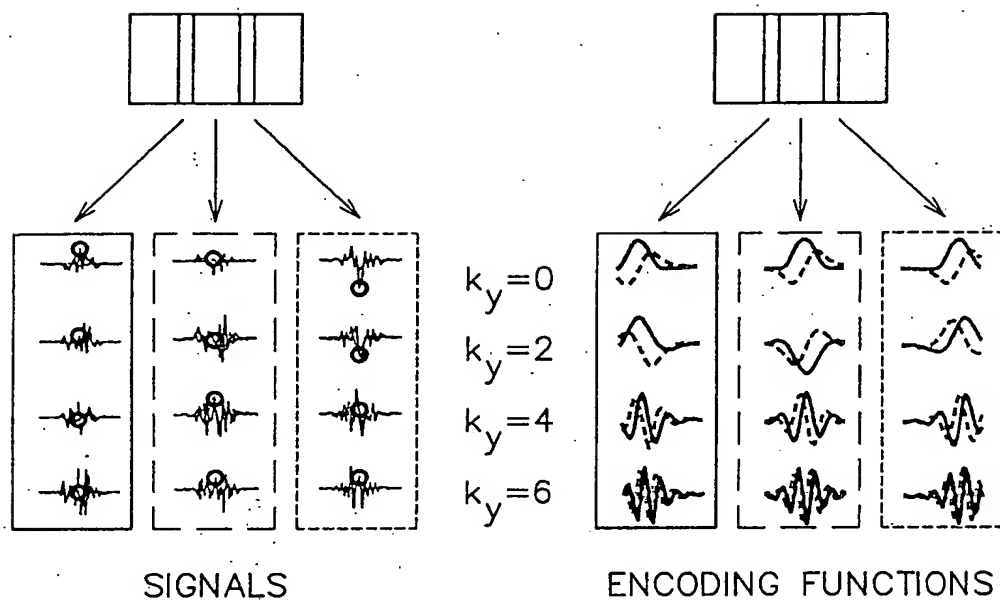


FIG. 16

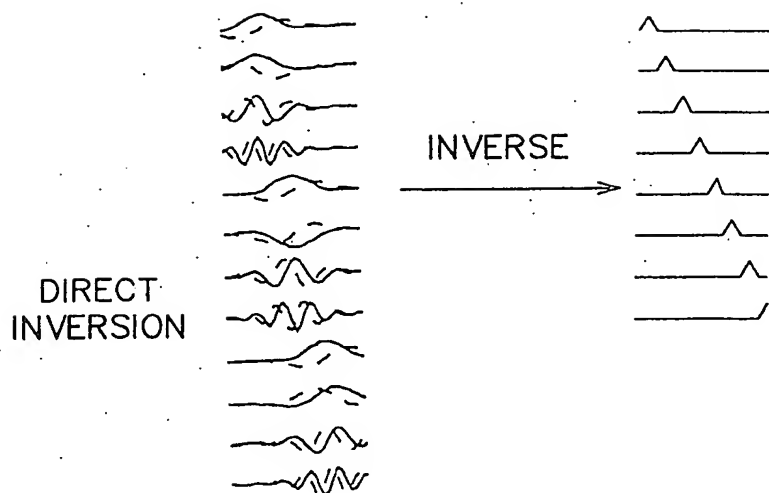


FIG. 17a

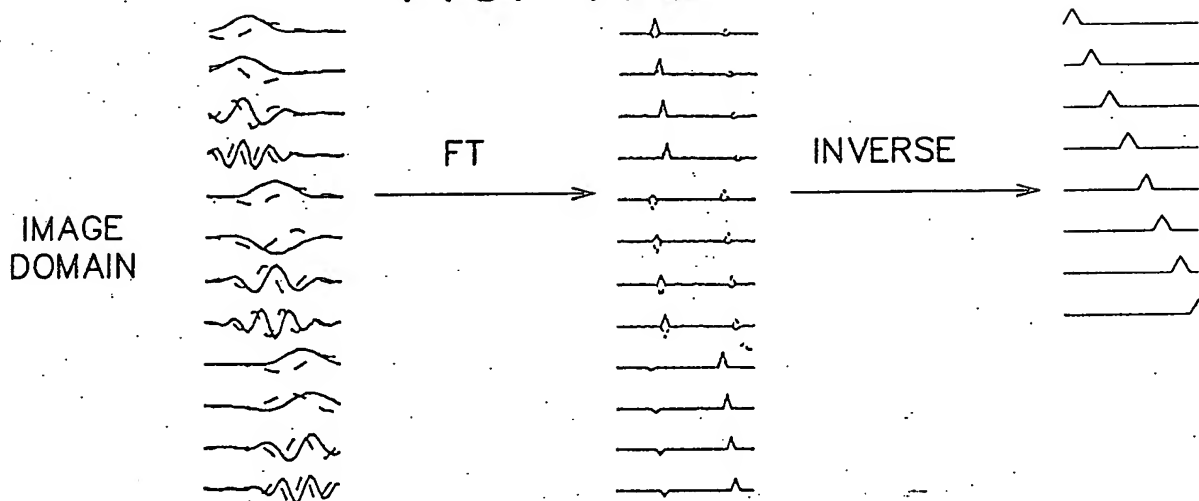


FIG. 17b

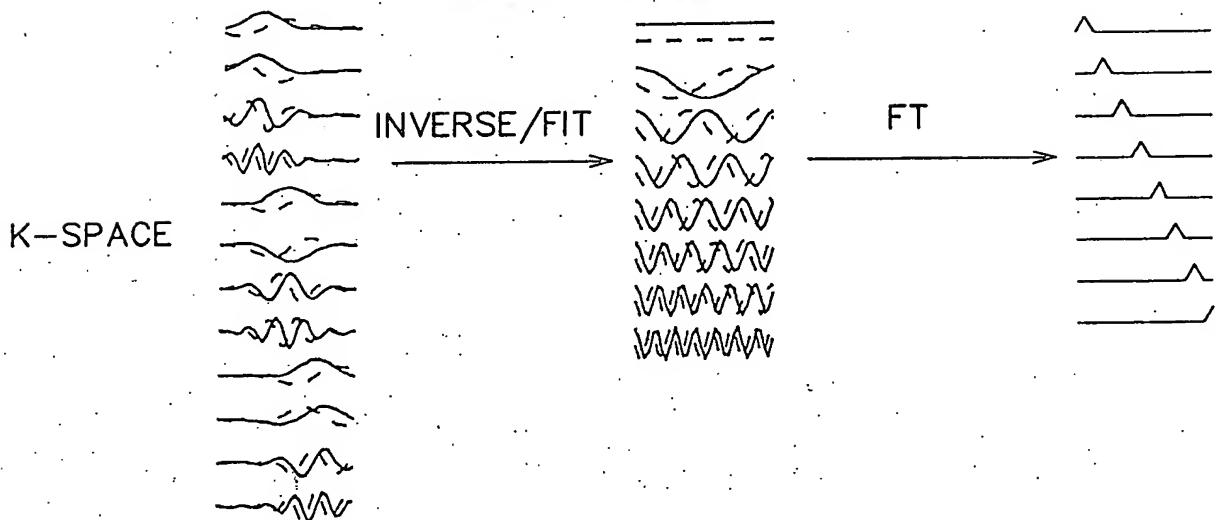


FIG. 17c

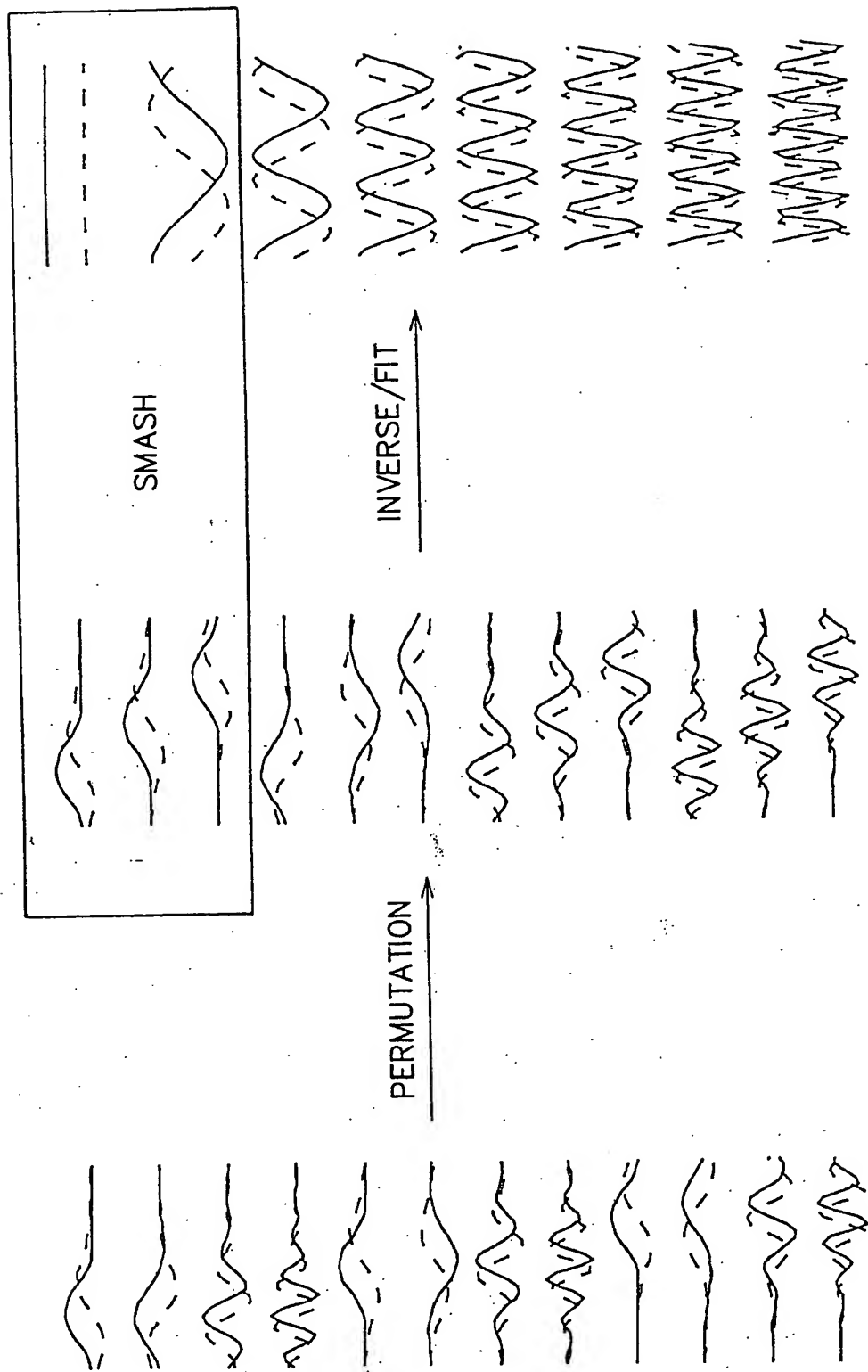


FIG. 18

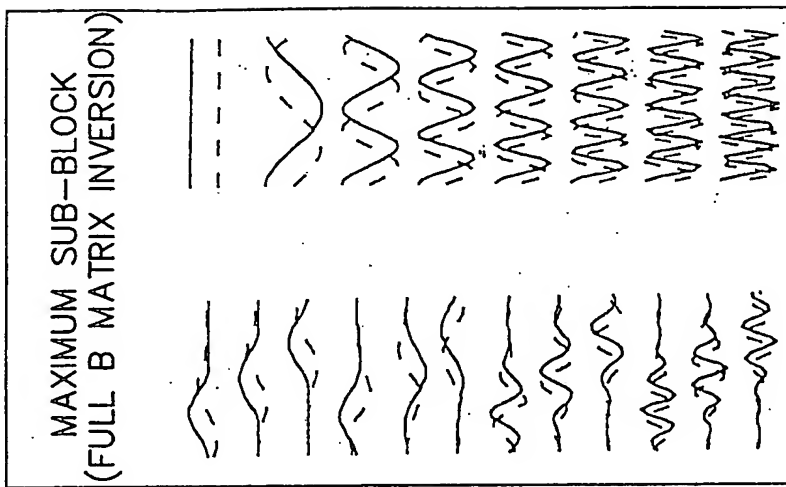
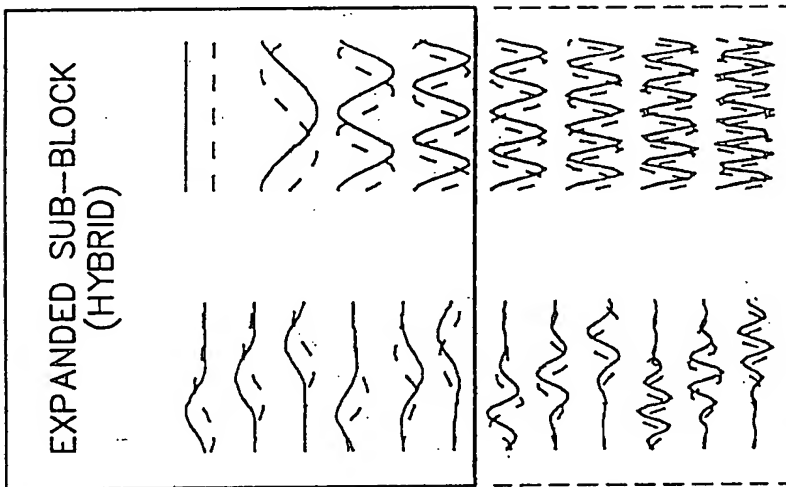
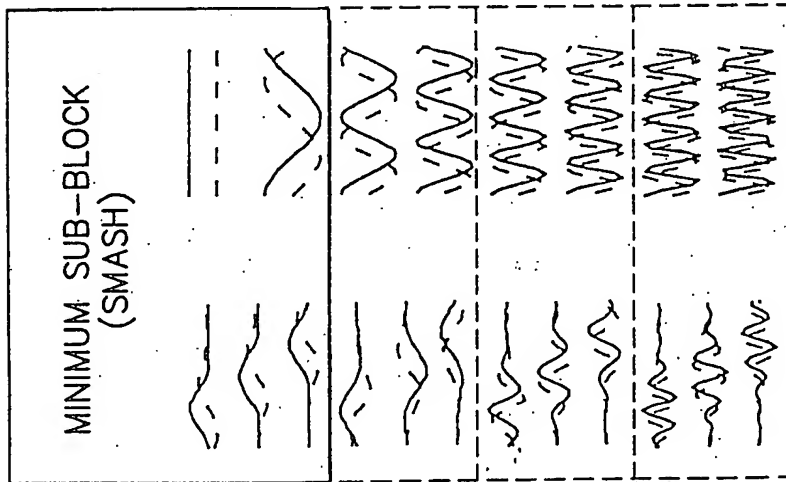
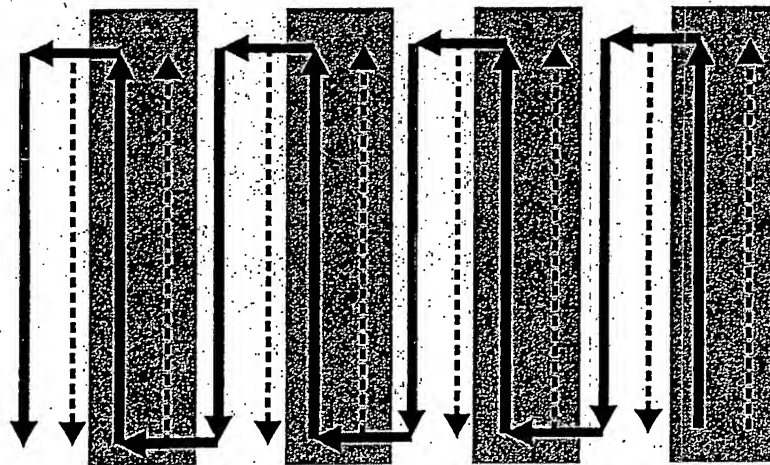


FIG. 19a

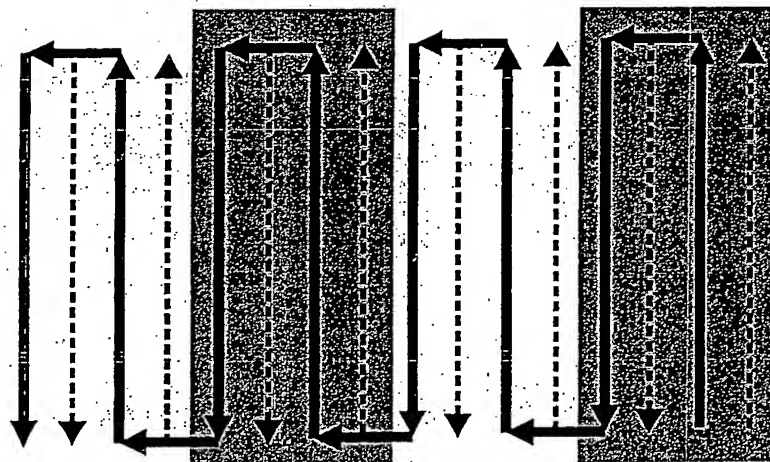
FIG. 19b

FIG. 19c

MINIMUM SUBBLOCK
(SMASH)



EXPANDED SUBBLOCK
(HYBRID)



MAXIMUM SUBBLOCK
(FULL B MATRIX INVERSION)

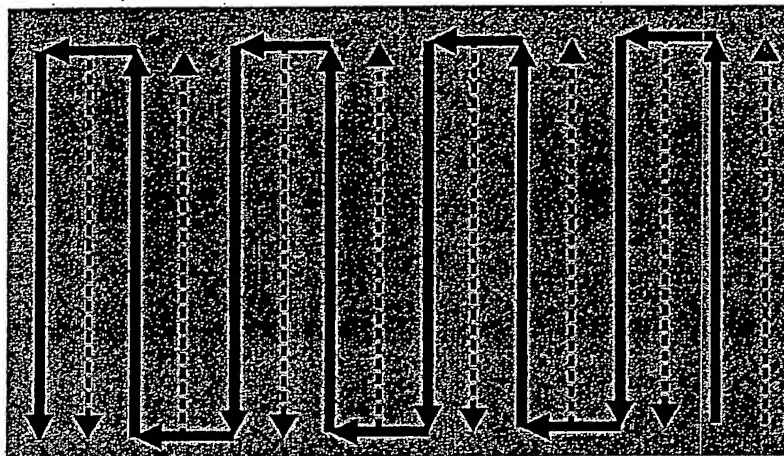


FIG. 20

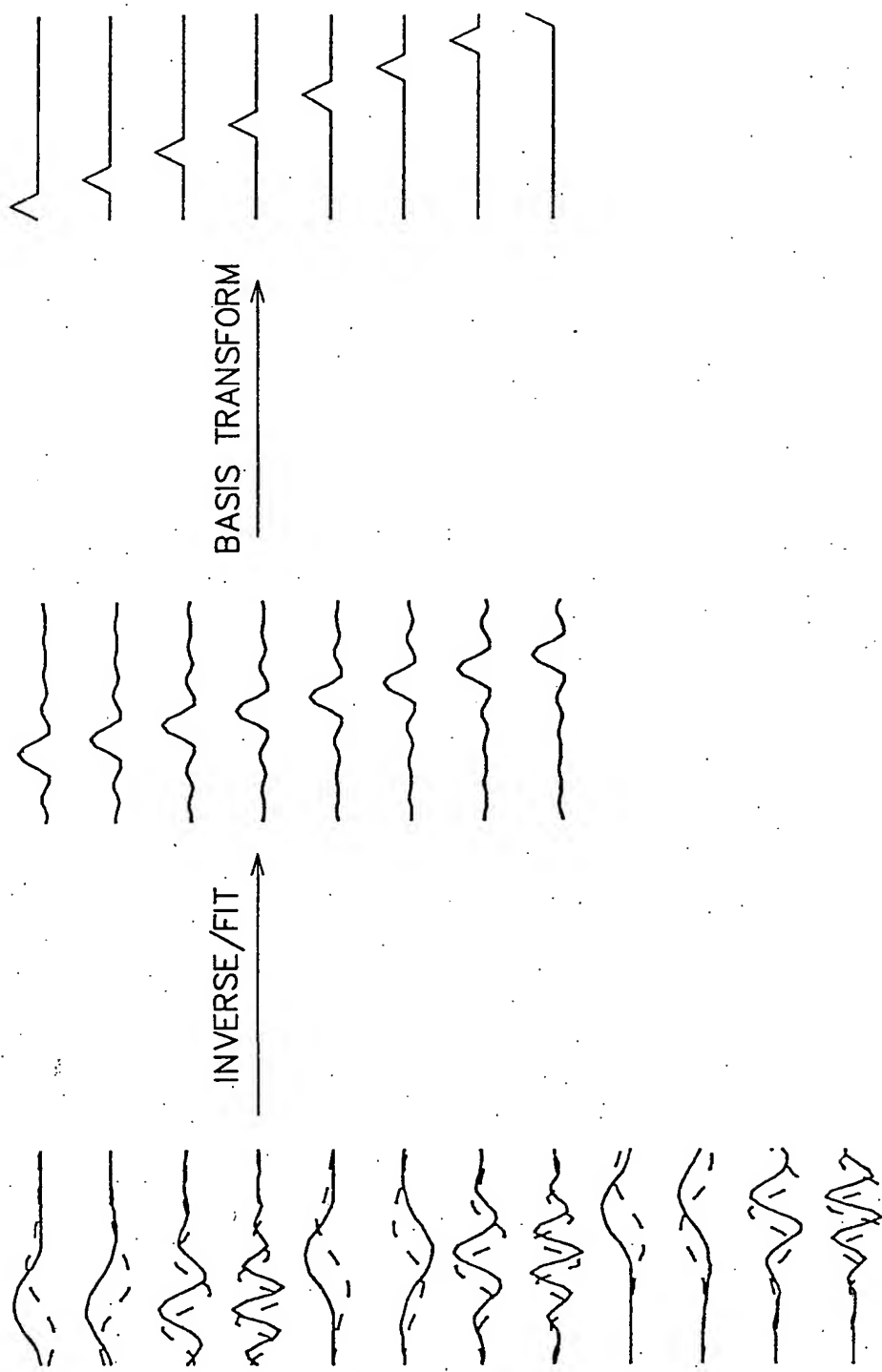


FIG. 21



FIG. 22a

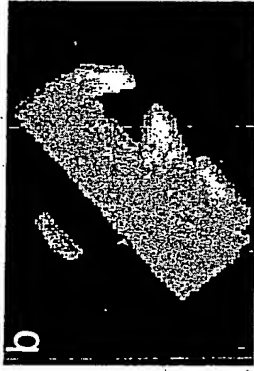


FIG. 22b

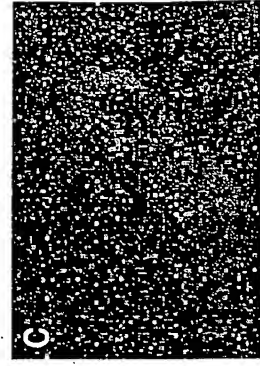


FIG. 22c



FIG. 22d



FIG. 22e



FIG. 23a



FIG. 23b

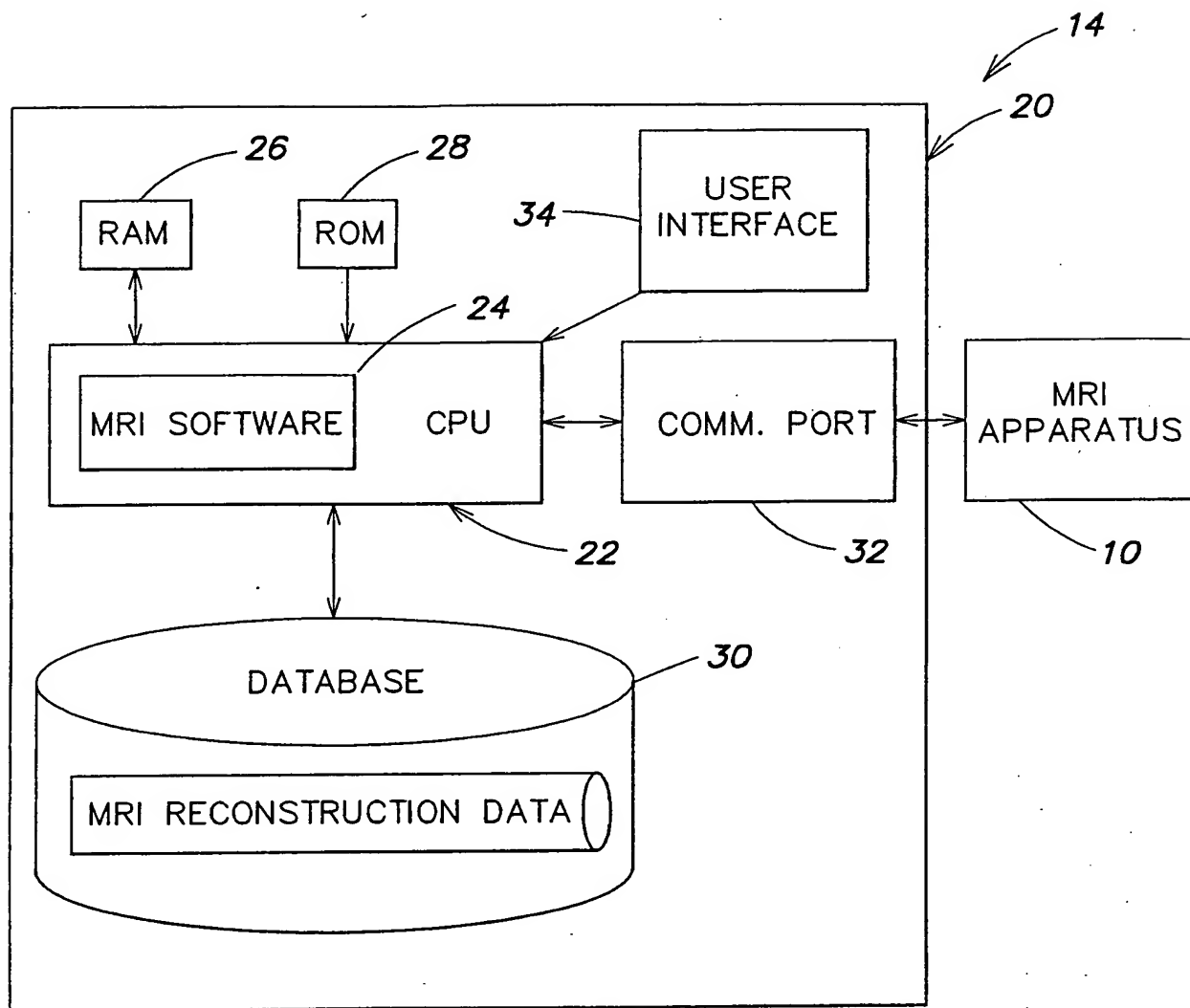


FIG. 24